Skip Counting the Squares

1, 4, 9,

1, 4, 9,

16, 25, 36,

\_\_\_\_, 25, 36,

49,64,81,

49, \_\_\_\_, 81,

100, 121,

100, 121.

144, 169,



196, 225

2

196, 225

l, \_\_\_\_\_\_\_\_9,

l, \_\_\_\_\_\_\_9,

\_\_\_\_, 25, 36,

\_\_\_\_, 25, \_\_\_\_,

49,\_\_\_\_\_81,

\_\_\_\_, [2],

\_\_\_\_, |2|,

\_\_\_\_, 169,

\_\_\_\_\_, 169,

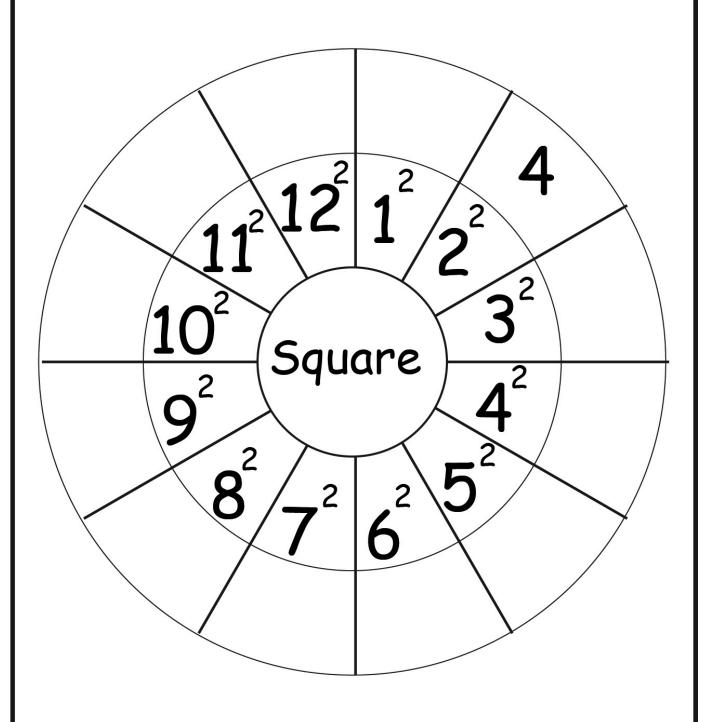


196, 225



-----,

# Squares



Name: \_\_\_\_\_

### **Squares and Square Roots**

a.

$$\sqrt{144} =$$
\_\_\_\_\_

c.

$$\sqrt{9} =$$
\_\_\_\_\_

е

$$\sqrt{100} =$$

g.

$$\sqrt{64} =$$
\_\_\_\_\_

i.

$$\sqrt{121} =$$
\_\_\_\_\_

k

$$\sqrt{1} = \underline{\phantom{a}}$$

m.

$$10^{2} =$$

0.

$$5^2 =$$
\_\_\_\_\_

0.

q.

$$8^2 =$$
\_\_\_\_\_

s.

$$O^2 =$$

U.

$$12^2 =$$
\_\_\_\_\_

b.

$$\sqrt{81} =$$

d.

$$\sqrt{49} =$$

f

$$\sqrt{36} =$$
\_\_\_\_\_

h.

$$\sqrt{16} =$$
\_\_\_\_\_

j

$$\sqrt{25} =$$
\_\_\_\_\_

|

$$\sqrt{0} = \underline{\hspace{1cm}}$$

n.

$$9^{2} =$$

p.

$$7^{2} =$$

p.

r.

1

٧.

$$3^2 =$$

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### Skip Counting the Cubes

1,8,

1,8,

27,64,

27, \_\_\_\_\_,

125, 216,

125, 216,

343, 512,

729,

729,

2 \_\_\_

. \_\_\_\_\_

\_\_\_\_

27, \_\_\_\_\_

125, \_\_\_\_\_

125, \_\_\_\_\_,

\_\_\_\_, 5|2,

729,

729,

3 \_\_\_\_

4

\_\_\_\_

# Cubes 8 Cube

Name : \_\_\_\_\_

Score:

Teacher:

Date : \_\_\_\_\_

### **Evaluate the Squares and Cubes**

Score:

Teacher:

Date:

### **Perfect Squares and Cubes Operations**

Write the square or cube root for each number.

1) 
$$\sqrt{36} =$$
 \_\_\_\_\_ 2)  $\sqrt[3]{1} =$  \_\_\_\_\_ 3)  $\sqrt{25} =$  \_\_\_\_\_

$$\sqrt[3]{1} = \underline{\hspace{1cm}}$$

3) 
$$\sqrt{25} =$$

4) 
$$\sqrt{16} =$$

4) 
$$\sqrt{16} =$$
 5)  $\sqrt[3]{343} =$  6)  $\sqrt{81} =$ 

6) 
$$\sqrt{81} =$$

Write the square root for each number.

**7**) 
$$\sqrt{64} =$$

7) 
$$\sqrt{64} =$$
\_\_\_\_\_\_ 8)  $\sqrt{36} =$ \_\_\_\_\_

9) 
$$\sqrt{9} =$$

10) 
$$\sqrt{49} =$$
 11)  $\sqrt{1} =$  12)  $\sqrt{100} =$ 

11) 
$$\sqrt{1} =$$
\_\_\_\_\_

$$12)$$
  $\sqrt{100} =$ 

Write the cube root for each number.

13) 
$$\sqrt[3]{343} =$$

14) 
$$\sqrt[3]{64} =$$

13) 
$$\sqrt[3]{343} =$$
 14)  $\sqrt[3]{64} =$  15)  $\sqrt[3]{1000} =$  \_\_\_\_

16) 
$$\sqrt[3]{125} =$$

$$\sqrt[3]{216} = \underline{\hspace{1cm}}$$

16) 
$$\sqrt[3]{125} =$$
 17)  $\sqrt[3]{216} =$  18)  $\sqrt[3]{512} =$  \_\_\_\_

### Math Unit 12

Match each item on the left with the correct item on the right.

**1.** 1 foot

•

• 1.6 kilometers

**2.** 3 feet

•

• 1 yard

**3.** 5280 feet

•

• 12 inches

**4.** 1 mile

•

• 1 mile

### Yards, Feet, and Inches

Memorize this: There are 12 inches in a foot.

There are 3 feet in a yard.

There are 36 inches in a yard.

Complete the table. Then use the information in the table to fill in the blank lines below.

1 yard	2 yards	3 yards	4 yards	5 yards
3 feet			12 feet	
36 inches	72 inches	108 inches		

Name: \_\_\_\_\_

### In and Out Boxes: Measurement



Complete the tables below and answer the questions that follow.

yards	1	4	7	
feet				27

rule: multiply by 3

rule:

- a. How many feet are in 1 yard? \_\_\_\_\_\_
- b. How many feet are in 36 inches?
- c. How many yards are in 27 feet?
- d. How many inches are in 3 feet?
- \*. How many feet are in 5 yards? \_\_\_\_\_
- ★. How many feet are in 48 inches? \_\_\_\_\_\_

Use the table below to answer the questions.

yards	1	2	3	4	5	6
inches	36	?	108	144	180	216

- e. How many inches are in 5 yards? \_\_\_\_\_
- f. How many inches are in 2 yards? \_\_\_\_\_
- g. On the lines below, describe the rule you can use to find the number of inches in a given number of yards.

Name

Date

# **U. S. Length Conversions**Inches/Feet

There are 12 inches in 1 foot.

1. 36 inches = \_\_\_\_feet

2. \_\_\_\_ inches = 14 feet

3. \_\_\_\_ inches = 5 feet

4. 144 inches = \_\_\_\_ feet

5. \_\_\_\_ inches = 27 feet

6. 1,416 inches = \_\_\_\_ feet

7. \_\_\_\_ inches = 365 feet

8. 228 inches = \_\_\_\_ feet

9. 444 inches = \_\_\_\_ feet

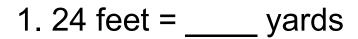
10. \_\_\_ inches = 20 feet

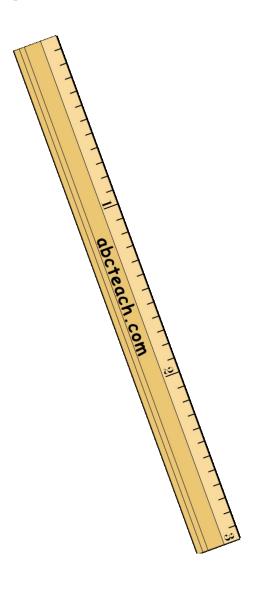
Name

Date

# **U. S. Length Conversions Feet/Yards**

There are 3 feet in 1 yard.



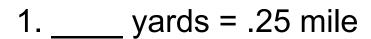


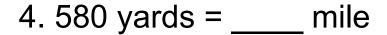
Name

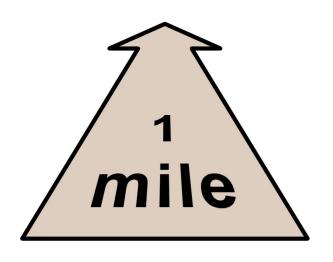
Date

# U. S. Length Conversions Yards/Miles

There 1,760 yards in 1 mile.







### Math Unit 13

Match each item on the left with the correct item on the right.

**1.** 1 pound

•

1000 grams

**2.** 2000 pounds

•

• 1 ton

3. 1 kilogram

•

• 2.2 pounds

**4.** 1 kilogram

• 16 ounces

### **Converting Weight**



Chef John picked up a few amazing cookbooks from France during his vacation. When he got back to his work, he realized, he didn't understand the measurements! Confused, Chef John realized that the recipes use the **metric system**. For John to read his recipe books, he has to make a few conversions from **kilograms** to **pounds**.

Help Tim with a few weight conversion exercises, so he can start buying some ingredients for his restaurant!

### Example

Use the table below to convert weight from kilograms (kg) to pounds (lbs)

 $20 \text{ kg} \times 2.2046 = 44.092 \text{ lbs} = 44.1 \text{ lbs}$ 

Weight in Kilograms

Multiply 2.2046 to convert kg to lbs

**Weight in Pounds** 

Round to the nearest decimal

8) 
$$24.5 \text{ kg} =$$

Name: \_\_\_\_\_

### **Grams and Kilograms**

A **gram** (g) is used to measure the weight or mass of very light objects. A small paperclip weighs about a gram.

A kilogram (kg) is used to measure the weight or mass of heavier objects. A one-liter bottle of water weighs about a kilogram.

### 1 kilogram = 1,000 grams

$$3 \text{ kg} = ___ g$$

$$6,000 g = ___ kg$$

$$3 \text{ kg} \times 1,000 = 3,000 \text{ g}$$

$$6,000 \div 1,000 = 6 \text{ kg}$$

$$3 \text{ kg} = 3,000 \text{ g}$$

$$6,000 g = 6 kg$$

- A squirrel weighs about.... **a.** 10 grams 1.
- **b.** 100 grams
- **c.** 1 kilogram

- 2. A cell phone weighs about... a. 1 gram
- **b.** 120 grams
- **c.** 2 kilograms

- A watermelon weighs about... **a.** 500 grams 3.

- **b.** 2 kilograms **c.** 13 kilograms

 $8 \text{ kg} = \underline{\qquad} g$ 4.

**5**.  $2,000 g = ____ kg$ 

- $5,000 g = ____k g$ 6.
- 7.  $7 \text{ kg} = ____g$
- $10,000 g = ____ kg$ 8.
- 9. 30 kg =\_\_\_\_\_g
- Jan's cat weighs 4 kg. Carl's cat weighs 2,900 grams. Whose cat is heavier? 10. Explain.

### Weight



1 pound = 16 ounces

Abbreviation for pounds = lbs.

1 ton = 2,000 pounds

Abbreviation for ounces = oz.

Abbreviation for tons = T

$$3 lbs. = 48 oz.$$

$$3 T = 6,000 lbs.$$

**2.** 
$$2T =$$
 lbs.

3. 
$$2 \text{ lbs.} = 0.02.$$

**4.** 
$$5T =$$
 lbs.

**6.** 
$$4T =$$
\_\_\_\_\_lbs.

7. Which weighs more: 3 pounds of butter or 60 ounces of butter? Explain.

Which weighs more: 2 pounds of bricks or 2 pounds of feathers? Explain. 8.

N	a	m	e	

Date

### **Measurement Conversion Word Problems - Weight**

- Ms. Bezel, the jewelry designer, ordered 500 grams of silver, 800 grams of brass, and 700 grams of copper. How many kilograms of metal did she order in all?
- 2. Eric has two dogs. He feeds each dog 250 grams of dry food each, twice a day. If he buys a 10-kilogram bag of dry food, how many days will the bag last?

\_\_\_\_\_ kilograms

- \_\_\_\_\_
- 3. Mr. Snow bought 90 grams of Christmas candy for each of his 14 grandchildren. How many total kilograms of candy did he buy?
- 4. The vet instructed Manuel to give his dog .5 milligrams of medication per 1 kilogram of the dogs weight. His dog weighs 12 kilograms. How much total medication should the dog have?

\_\_\_\_\_ kilograms

\_\_\_\_\_ milligrams

- 5. Sarah purchased 8kg of sugar, 10kg of flour, 500g of cocoa, 225g of pecans, and 275g of coconut. How much do all her groceries weigh in kilograms?
- 6. The adult dosage directions for 325mg aspirin tablets reads "take 1 or 2 tablets every 4 hours, not to exceed 12 tablets in 24 hours." In grams, what is the maximum amount of aspirin an adult should take in one day?

\_\_\_ kilograms

\_\_\_\_ grams

### Math Unit 14

Match each item on the left with the correct item on the right.

**1.** 1 inch

• 1 kilometer

2. 100 centimeters

• 2.54 centimeters

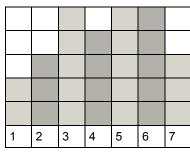
**3.** 1000 meters

• 1 meter

### **Measurement Conversion Word Problems - Length/Distance**

1. Zach made a chart to show how many mm his plant grew each week for 7 weeks. Each block equals 5 mm of

growth. How tall is the plant?



centimeters

2. Susie begins a new walking program with 600 m on the first day. Each day, she will increase her walk by 200 m. How many kilometers will she walk on day 18 of her program?

kilometers

- 3. Trudy wants to surround her garden on all four sides with fencing. Her rectangular garden is 270 cm by 130 cm. How many meters of fencing will she need?
- 4. Jin is training for the 50 meter dash. Each day that he trains, he runs the dash six times. Last week, he trained for four days. This week, he trained for five days. In two weeks, how far has Jin run?

meters

\_\_\_\_\_ kilometers

- 5. Lu is stringing beads to make a necklace. She is using 30 of the 8 mm beads, 70 of the 4 mm beads, and 40 of the 2 mm beads. How long will her finished necklace be?
- 6. Mara is building a wind chime. She needs string in the following lengths: six pieces of 20 cm, 3 pieces of 30 cm and one piece of 40 cm. How much string does she need?

centimeters

meters

Name: _		Date:
	Length Convers	sion Practice - #4
	Round answers t	to 2 decimal places
		r 10 Centimeters = 1 Decimeter 1000 Meters = 1 Kilometer
	9 Kilometers =	Centimeters
	10 Kilometers =	Decimeters
	69 Decimeters = _	Kilometers
	9 Kilometers =	Centimeters
	8 Kilometers =	Meters
	72 Millimeters = _	Meters
	8 Kilometers =	Millimeters
	10 Kilometers =	Centimeters
	87 Meters =	Kilometers
	54 Millimeters = _	Meters
	69 Meters =	Kilometers
	76 Decimeters = _	Millimeters
	54 Decimeters = _	Kilometers

Name:	Date:
Length Con	version Practice - #7
Round answe	ers to 2 decimal places
1.0936 Yards = 1 Meter 10 Centimeters = 1 Decim	3 Feet = 1 Yard 2.54 Centimeters = 1 I nch 10 Millimeters = 1 Centimeter neter10 Decimeters = 1 Meter er 1.609 Kilometers = 1 Mile
5 Miles =	Feet
4 Kilometers =	Meters
4 Miles =	Decimeters
3 Kilometers =	Decimeters
3 Miles =	Meters
79 Millimeters =	Yards
100 Decimeters =	= I nches
5 Decimeters = _	Yards
10 Kilometers = _	Miles
74 Meters =	Miles
6 Miles =	Decimeters

### Math Unit 15

Match each item on the left with the correct item on the right.

1. 1 tablespoon (tbsp)

• 30 milliliters (ml)

2. 1 ounce (oz.)

• 1 liter (I)

3. 1 teaspoon (tsp) •

• 15 milliliters (ml)

4. 1 tablespoon • (tbsp)

• 2 tablespoon (tbsp)

**5.** 1 ounce (oz)

• 5 milliliters (ml)

6. 1000 milliliters (ml) •

• 3 teaspoons (tsp)



Convert from or to: oz, tsp or tbsp as requested.

Convert to or from ounces, teaspoons, tablespoons.

$$^{1.}$$
 30 tsp = fl oz

$$^{2.}$$
 44 tbsp =

3. 
$$48 \text{ tbsp} = \text{floz} \quad 4. \quad 5 \text{ tbsp} =$$

$$^{4.}$$
 5 tbsp =

$$^{5.}$$
 6 tbsp =

$$floz$$
 6. 36  $floz =$ 

<sup>7.</sup> 47 tbsp = 
$$floz + tbsp$$
 <sup>8.</sup> 19 tsp =  $tbsp + tsp$ 

$$19 \text{ tsp} =$$

$$9.7 \text{ tsp} =$$

$$^{10}$$
. 21 fl oz =

$$^{11}$$
. 34 fl oz =

$$^{12.}$$
 28 fl oz =

$$^{13.}$$
 5 tsp = fl oz

$$^{14.}$$
 9 fl oz =

$$^{15.}$$
 40 fl oz =

$$^{16.}$$
 6 fl oz =

### **Converting Liters and Milliliters**

Complete the tables below and answer the questions that follow.

liters	1		9	
milliliters		5,000		30,000

milliliters	4,000			550,000
liters		6	23	

rule: multiply by 1,000

rule: divide by 1,000

a. How many liters are in 5,000 milliliters?

b. How many milliliters are in 23 liters?

c. How many milliliters are in 9 liters?

a. How many liters are in 550,000 milliliters?

e. How many liters are in 20,000 milliliters?

f. How many milliliters are in 100 liters?

g. How many milliliters are in 11 liters?

- h. How many liters are in 890,000 milliliters?
- i. Brenda has a 1 liter bottle of shampoo that is only half-full. About how many milliliters of shampoo does she have in the bottle?
- j. Mr. Perkins changed the oil in his car. He bought 6 liters of oil. He put 4,500 mL in his car. How many milliliters of oil did he have left?

Name						

Date

### **Measurement Conversion Word Problems - Liquid Volume**

- 1. Mrs. Smith is planning a class party for 18 students. She will be serving apple juice. If she serves 250 ml per student, how many liters of juice will she need to buy?
- 2. Mr. Green's lawn mower holds 600 milliliters of gasoline in the tank. He just filled his 6 liter gas can at the station. How many times will he be able to fill his lawn mower tank from the gas can?

\_\_\_\_\_ liters

- \_\_\_\_\_
- 3. While Justin is in training, he is to drink 500 milliliters of water 4 times per day. How many liters of water will that be for one week?
- 4. A punch recipe calls for 3 liters ginger ale, 1.5 liters tropical fruit juice, and 500 milliliters pineapple juice. How much punch will the recipe make?

\_\_\_ liters

liters

- 5. Sean has 3 2-liter bottles of soda. If he divides the soda equally between himself and his 11 friends, how much soda will each person have?
- 6. Ann is baking 2 cakes, brownies, cookies and 2 pies for the bake sale. The recipes call for milk in the following amounts: 230 ml, 50 ml, 120 ml, 200 ml, 300 ml, and 100 ml. How much milk does she need in all?

\_\_\_\_ milliliters

\_\_\_\_ liters

Name:
-------

### Math Unit 16-18

### Match each item on the left with the correct item on the right.

The perimeter of • a polygon

• 1/2 its base times its height

2. The area of a rectangle

 Right triangle, isosceles triangle, equilateral triangle

The area of a square

• one of its sides squared

**4.** The volume of a rectangular solid

• 2 times Pi times its radius

The area of a triangle

• Pi times its radius squared

6. Three types of triangles

• 3.14

**7.** Pi

 The sum of the length of its sides

8. The circumference of a circle

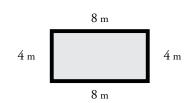
 its length time its width times its height

• Its base times its height

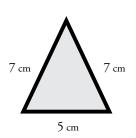
### **Perimeter**

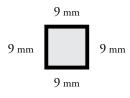
Find the perimeter of each polygon.

a.



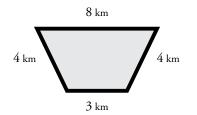
b.



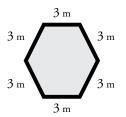


Perimeter = \_\_\_\_\_ Perimeter = \_\_\_\_\_ Perimeter = \_\_\_\_\_

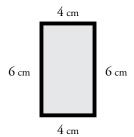
d.



e.



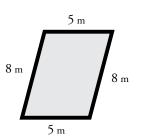
f.



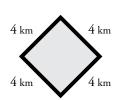
Perimeter = \_\_\_\_\_ Perimeter = \_\_\_\_\_

Perimeter = \_\_\_\_\_

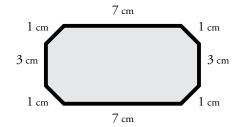
g.



h.



i.



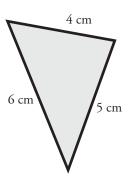
Perimeter = \_\_\_\_\_ Perimeter = \_\_\_\_\_ Perimeter = \_\_\_\_\_

**Bonus Box:** Write the names of the polygons pictured above.

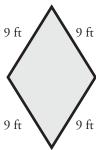
### Perimeter of a Polygon

Find the perimeter of each shape by adding the lengths of each side. Be sure to include the units in your answer.

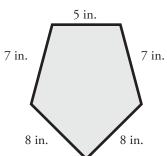
a.



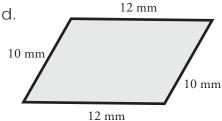
b.



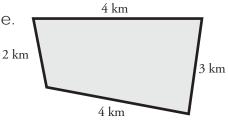
C.



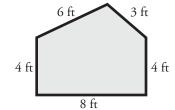
d.



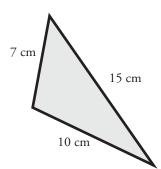
е.

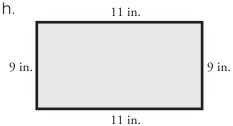


f.

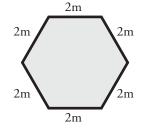


g.





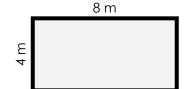
i.



### (Area of a Rectangle)

To find the area of a rectangle, multiply the length by the width.

example:



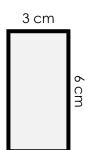
area =  $4 \text{ m} \times 8 \text{ m} = 32 \text{ square meters}$ 

Find the area of each rectangle by multiplying

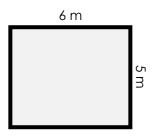
a.



b.



C.



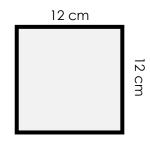
d.



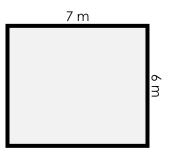
e.



f.



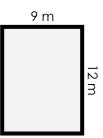
g.



h.



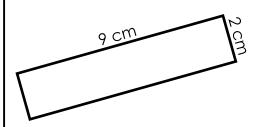
i.

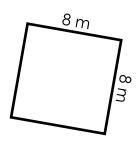


area = \_\_\_\_\_ area = \_\_\_\_ area = \_\_\_\_

### Areas of Rectangles

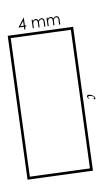
Find the areas of the rectangles. Be sure to include the units in your answer.



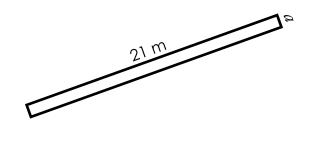




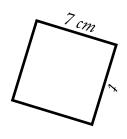
Find the lengths of the unknown sides. Be sure to include the units in your answer.



$$A = 36 \text{ mm}^2$$



 $A = 21 \text{ m}^2$ 



$$A = 49 \text{ cm}^2$$

Side 
$$c =$$
\_\_\_\_\_\_ Side  $t =$ \_\_\_\_\_\_

A rectangle has a width of 20 m and an area of 60 m. What is the length of the rectangle?

A rectangle has an area of 36 mm<sup>2</sup>. All of the sides are the same length.

What is the length of a single side?

### Math Unit 16-18

### Match each item on the left with the correct item on the right.

The perimeter of • a polygon

1/2 its base times its height

2. The area of a rectangle

 Right triangle, isosceles triangle, equilateral triangle

The area of a square

one of its sides squared

**4.** The volume of a rectangular solid

• 2 times Pi times its radius

The area of a triangle

• Pi times its radius squared

6. Three types of triangles

• 3.14

**7.** Pi

 The sum of the length of its sides

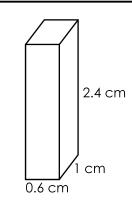
8. The circumference of a circle

 its length time its width times its height

The area of a • circle

• Its base times its height

### Volume of a Rectangular Prism



To find the volume of a rectangular prism, multiply the length by the width by the height.

$$V = l \times w \times h$$

$$V = 0.6 \text{ cm} \times 1 \text{ cm} \times 2.4 \text{ cm}$$

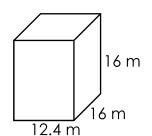
$$V = 1.44 \text{ cm}^3$$

Calculate the volume of each rectangular prism. Be sure to include units in your answer.

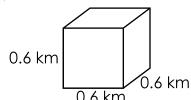
a.



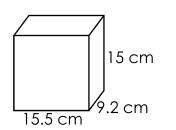
b.



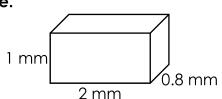
c.



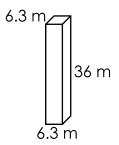
d.



e.

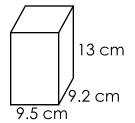


f.

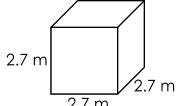


g.

h.



i

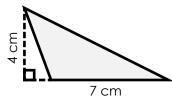


$$V =$$

### Area of a Triangle

To find the area of a triangle, use the formula **area** =  $\frac{1}{2}$  **x base x height** or **A** =  $\frac{1}{2}$  **x b x h**.

example:



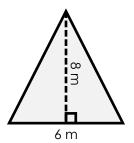
height = 4 cm  $A= 14 cm^2$ 

 $A = \frac{1}{2} \times b \times h$   $A = \frac{1}{2} \times 7 \text{ cm} \times 4 \text{ cm}$ 

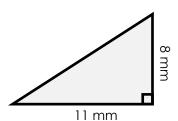
base = 7 cm  $A = \frac{1}{2} \times 28 \text{ cm}^2$ 

Find the area of each triangle.

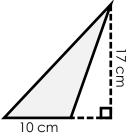
a.



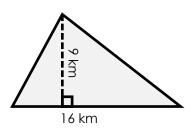
b.



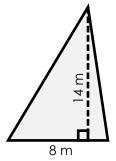
C.



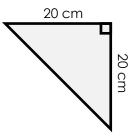
d.



e.



f.



Find the area of a triangle using the base and height measurements.

g.

$$h = 20 \text{ meters}$$

h.

$$h = 15$$
 centimeters

i.

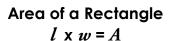
Name: \_

### Area of Rectangles & Triangles

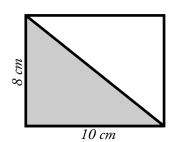
### Area of a Triangle

 $\frac{1}{2} \times (b \times b) = A$ 

To find the area of a trianale, multiply ½ x base x height.



To find the area of a rectangle, multiply length x width.



Area of the shaded triangle:

b = 10 cm

b = 8 cm

 $\frac{1}{2}$  x 10 cm x 8 cm = 40 cm<sup>2</sup>

Area of the rectangle:

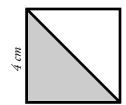
l = 10 cm

w = 8 cm

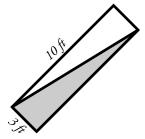
 $10 \text{ cm x } 8 \text{ cm} = 80 \text{ cm}^2$ 

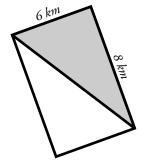
Find the area of each rectangle and shaded triangle.

a.



b.

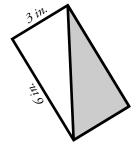




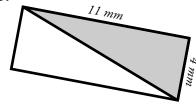
area of the square = \_\_\_\_\_\_ area of the rectangle = \_\_\_\_\_ area of the rectangle = \_\_\_\_\_

area of the triangle = \_\_\_\_\_\_ area of the triangle = \_\_\_\_\_ area of the triangle = \_\_\_\_\_

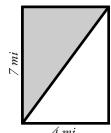
d.



e.



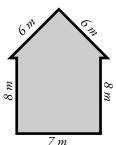
f.



area of the rectangle = \_\_\_\_\_ area of the rectangle = \_\_\_\_ area of the rectangle = \_\_\_\_

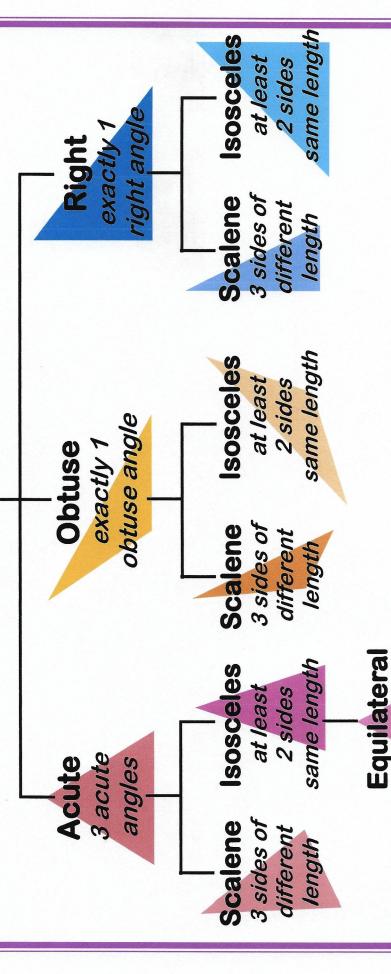
area of the triangle = \_\_\_\_\_\_ area of the triangle = \_\_\_\_\_ area of the triangle = \_\_\_\_\_

Challenge: Find the area of the polygon. Use the back if you need work space.



# TRIANGLE FAMILY TREE





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are equal length

all 3 sides

### Math Unit 16-18

### Match each item on the left with the correct item on the right.

 The perimeter of • a polygon 1/2 its base times its height

2. The area of a rectangle

 Right triangle, isosceles triangle, equilateral triangle

The area of a square

• one of its sides squared

**4.** The volume of a rectangular solid

• 2 times Pi times its radius

5. The area of a • triangle

• Pi times its radius squared

**6.** Three types of triangles

• 3.14

**7.** Pi

 The sum of the length of its sides

8. The circumference of a circle

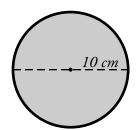
 its length time its width times its height

The area of a • circle

• Its base times its height

### Circumference of a Circle

To find the circumference of a circle, use the formula **pi x diameter = circumference**. This formula is often written as  $C = \pi \times d$ .



The circle pictured here has a diameter of 10 cm.

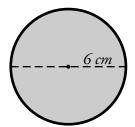
d = 10 cm

 $\pi \approx 3.14$ 

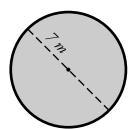
10 cm x 3.14 = 31.4 cm

Find the circumference of each circle. Use 3.14 for pi.

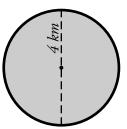
a.



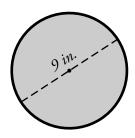
b.



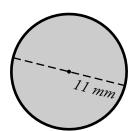
c.



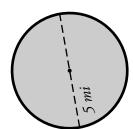
d.



e.



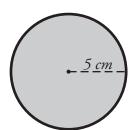
f.



**g.** Karla and Jeremy have a cicular pool with a diameter of 12 feet. What is the circumference of the pool?

### Area of a Circle

To find the area of a circle, use the formula **pi x radius**<sup>2</sup> = **area**. This formula is often written as  $A = \pi r^2$ .



The circle pictured here has a radius of 5 cm.

$$r = 5 \text{ cm}$$

$$\pi \approx 3.14$$

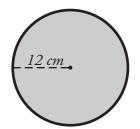
$$A = 3.14 \times (5 \text{ cm} \times 5 \text{ cm})$$

$$A = 3.14 \times 25 \text{ cm}^2$$

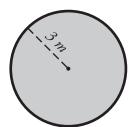
$$A = 78.50 \text{ cm}^2$$

Find the area of each circle. Use 3.14 for pi.

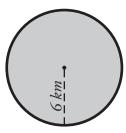
a.



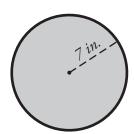
b.



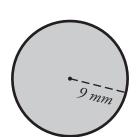
c.



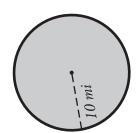
d.



e.

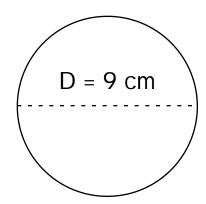


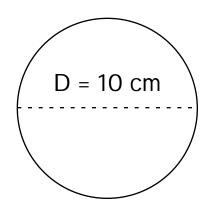
f.

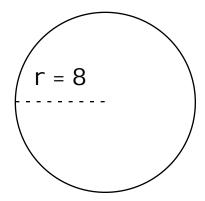


**g.** Kaylee and Rory have a circular swimming pool. The pool has a cover that fits snuggly over the top of it. If the radius of the pool is 11 ft, what is the surface area of the cover?

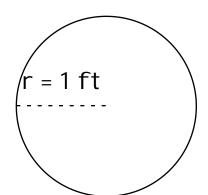
### Calculate Area Practice - Page 1 Calculate the area.

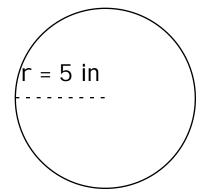


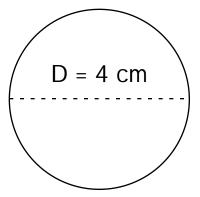




Area = \_\_\_\_\_ Area = \_\_\_\_ Area = \_\_\_\_







Area = \_\_\_\_\_ Area = \_\_\_\_ Area = \_\_\_\_

Area: Pi (3.14) x the radius (r) squared

**Diameter** = radius  $\times$  2